

OUTBOARD TROLLING MOTOR DEPLOYMENT AND CONTROL SYSTEM

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention is directed to an outboard trolling motor deployment and control system for a boat. In particular, the system comprises a deployment assembly disposed in cooperative engagement with an outboard trolling motor assembly having at least one thrust axis. The deployment assembly is structured such that the outboard trolling motor assembly may be positioned between a stowed position and at least one predetermined deployed position while maintaining the thrust axis substantially parallel to a longitudinal centerline of the boat. The system of the present invention also comprises a control assembly disposed in a communicative relationship with the outboard trolling motor assembly.

DESCRIPTION OF THE RELATED ART

At the turn of the last century, there were more than 12 million boats registered throughout the United States, and many of these boats are presumedly utilized for various types of fishing activities. Most fishing boats include at least one main motor which permits the operator to propel the boat from one location to another, for example, from a dock or boat launch to a favorite fishing hole. Typically, the main motors employed to permit the

1 boat to travel long distances are sized to propel the boat at
2 relatively high speeds, such that the boat creates a wake in its
3 trail, the wake being a large area of disturbed water. In addition
4 to the wake, such motors tend to produce a significant amount of
5 noise, which is readily transmitted through the water. However,
6 once the boat arrives in the vicinity of the fishing hole, it is no
7 longer desirable to use a motor that creates a wake or produces
8 noise, as it may either scare fish from the area or distract them
9 from taking a bait presented by a fisherman.

10 As such, much smaller motors, commonly known as trolling
11 motors, are often employed to propel the boat at significantly
12 reduced speeds [i.e. trolling speeds], when the boat approaches or
13 is located in an area where the operator wishes to fish.
14 Typically, such trolling motors are structured to propel the boat
15 at minimal speeds such that there is little discernable wake
16 created. In addition, many modern trolling motors are driven by
17 electric motors which operate almost silently so as not to betray
18 the fisherman's presence to his prey.

19 Given the relatively small size of most trolling motors, they
20 are typically structured only to be positioned into the water while
21 they are being used. While the boat is traveling at normal speeds
22 under power of the main motor or motors, the trolling motors are
23 normally disposed in a stowed position out of the body of water.
24 This is so as to eliminate drag from the trolling motor as the boat
25 moves through the body of water and, perhaps more importantly, to

1 prevent damage to trolling motor by the force of the water and/or
2 to the hull of the boat by the trolling motor being forced into
3 contact with the hull.

4 A variety of devices have been developed to deploy one or more
5 trolling motors from a boat, once it has arrived at a location
6 where the trolling motor is to be used. Many of these devices are
7 structured to temporarily dispose the trolling motor in an operable
8 position into the body of water overtop of a portion of the hull,
9 where at least a portion of the trolling motor and/or the trolling
10 motor mounting assembly extends upward above the portion of the
11 hull. Such mounting devices, however, present a potential point
12 for entangling fishing line, either while casting out line, reeling
13 in line, or by a fish which has taken the bait and is running with
14 the line. Also, such devices are typically structured to dispose
15 the trolling motor off either side of the boat near the bow, which
16 results in an offset, forward steerage point, which makes
17 maneuvering the boat more difficult, and maneuvering the boat at
18 low trolling speeds is difficult at best, even under ideal boating
19 conditions. These devices also typically require the operator to
20 manually align the angle and set the depth and distance from the
21 hull of the boat at which the trolling motor is deployed, which are
22 all critical factors with regard to the operating efficiency of the
23 trolling motor, as such, these devices are often deployed at an
24 angle, depth, and/or distance which does not permit maximum
25 operating efficiency. In addition, these devices typically require

1 the operator to physically adjust the speed and direction of the
2 trolling motor via a shaft or handle located on the trolling motor
3 assembly itself, thus restricting the operator's ability to move
4 freely about the boat to fish.

5 Attempts to address some of the aforementioned shortcomings
6 have resulted in trolling motor mounting devices wherein
7 essentially no portion of the trolling motor or mounting assembly
8 extend upward above any side of the boat. For example, one such
9 device provides for mounting the trolling motor onto a tab or
10 tongue which is mounted directly behind the boat and is rotated
11 into and out of the body of water. At least one device provides a
12 trolling motor disposed underneath the hull of the boat while in an
13 operable portion and which is retractable into a recess in the
14 underside of the hull of boat while the regular boat motor is
15 utilized. Although each of these devices minimize the risk of
16 entangling the fishing line with the trolling motor and/or mounting
17 assembly, they both position the trolling motor, and more
18 specifically, a propellor of the trolling motor in the path of flow
19 of water that has been disturbed by the passage of the hull of the
20 boat overtop, commonly known as "dirty water," rather than in the
21 undisturbed, "clean water" which passes by on either side of the
22 boat. Dirty water is normally somewhat turbulent and often
23 contains air bubbles, both of which may cause cavitation of the
24 motor resulting in reduced operating efficiency and, more
25 importantly, creating noise that may scare or disturb potential

1 prey. In addition, each of these devices only provide a single
2 position in which the thrust of the trolling motor is substantially
3 parallel with the longitudinal centerline of the boat, which is the
4 most efficient operating position in which to deploy the trolling
5 motor.

6 At least one other device employs a controller to permit the
7 operator to vary the speed and direction of the trolling motor
8 assembly, remote from the actual trolling motors themselves, via a
9 foot control switch, presumably to free the operator's hands so
10 that the operator may fish while maneuvering the boat via the
11 trolling motor.

12 Other devices have been developed which incorporate complex
13 mechanisms to deploy and/or retrieve one or more trolling motors,
14 thus making such devices expensive to manufacture and maintain.
15 Also, the complex nature of these devices may make it more time
16 consuming for the operator to deploy the trolling motor when
17 desired, which may be critical when unexpectedly arriving upon a
18 school of fish which the operator wishes to pursue at trolling
19 speed. Further, it is reasonable to assume that the complexity of
20 such devices will render them less reliable than simpler deployment
21 mechanisms, and thus, more expensive to properly maintain.

22 As such, it would be beneficial to provide a trolling motor
23 deployment assembly which would allow an operator to quickly and
24 easily deploy at least one trolling motor into at least one
25 predetermined deployed position, wherein the predetermined deployed

1 position is into undisturbed, "clean water." It would be a further
2 benefit for such a deployment assembly to be structured to dispose
3 a pair of outboard trolling motors into at least one predetermined
4 deployed position at an equal lateral distance from opposite sides
5 of the boat and at an equal depth below a normal surface of the
6 body of water. In addition, it would be helpful for any such
7 trolling motor deployment assembly to deploy the trolling motors
8 such that thrust generated by the trolling motors is maintained
9 substantially parallel to a longitudinal centerline of the boat, to
10 assure optimum operating efficiency of the trolling motors.
11 Furthermore, any such trolling motor assembly would preferably be
12 structured such that no portion of the mounting assembly or
13 trolling motor is disposed above any side wall of the boat while
14 the trolling motor is disposed in an operative position. Also, it
15 would be beneficial for such a trolling motor assembly to include
16 a control assembly structured to permit an operator to control the
17 speed and direction of the boat from a location remote of the
18 trolling motor, such that the operator is free to move about the
19 boat to fish.

20 21 SUMMARY OF THE INVENTION

22 As indicated above, the present invention is directed to an
23 outboard trolling motor deployment and control system for a boat,
24 and in particular, a boat that is afloat in a body of water. The
25 system comprises an outboard trolling motor assembly having at

1 least one outboard trolling motor structured to generate an amount
2 of thrust along a thrust axis. At least one embodiment of the
3 outboard trolling motor assembly of the present invention comprises
4 at least one pair of outboard trolling motors, each of the pair of
5 outboard trolling motors being structured to generate an amount of
6 thrust along a corresponding thrust axis, each thrust axis being
7 disposed substantially parallel to a longitudinal centerline of the
8 boat.

9 The system of the present invention also comprises a
10 deployment assembly having at least one pair of positionable
11 mounting members each operatively engaging a different one of the
12 outboard trolling motors. One embodiment of the deployment
13 assembly is disposed in an interconnecting orientation with a
14 transom of the boat and is structured to facilitate rotatably
15 positioning each of the outboard trolling motors along a
16 substantially arcuate path of travel between a stowed position and
17 at least one predetermined deployed position. In addition, the
18 deployment assembly is structured to maintain the thrust axis of
19 each of the outboard trolling motors disposed substantially
20 parallel with the longitudinal centerline of the boat at each point
21 along the substantially arcuate path of travel.

22 At least one other embodiment of the deployment assembly is
23 structured to facilitate rotatably positioning each of the outboard
24 trolling motors along the substantially arcuate path of travel
25 between the stowed position and any one of a plurality of

1 predetermined deployed positions. Each predetermined deployed
2 position being at least partially defined by each of the outboard
3 trolling motors disposed laterally outward from an opposite side of
4 the stern of the boat into a substantially undisturbed, or clean
5 water, portion of the body of water.

6 The system of the present invention also comprises a control
7 assembly disposed in a communicative relationship with at least the
8 outboard trolling motors. The control assembly is further disposed
9 in a communicative relationship with at least one power supply
10 structured and at least temporarily disposed in an energizing
11 relation with the outboard trolling motors. Additionally, the
12 control assembly is structured to at least actuate the outboard
13 trolling motors, either individually or in combination. In at
14 least one embodiment, the control assembly is further structured to
15 permit the operator to vary the speed and/or the direction of each
16 of the trolling motors, either individually, or in combination,
17 such that the speed and/or direction of each trolling motor is
18 varied simultaneously.

19 These and other objects, features and advantages of the
20 present invention will become more clear when the drawings as well
21 as the detailed description are taken into consideration.
22

23 BRIEF DESCRIPTION OF THE DRAWINGS

24 For a fuller understanding of the nature of the present
25 invention, reference should be had to the following detailed

description taken in connection with the accompanying drawings in which:

Figure 1 is an elevation of one preferred embodiment of the system of the present invention illustrating an outboard motor trolling assembly disposed in a stowed position.

Figure 2 is an elevation of the embodiment of Figure 1 illustrating the outboard trolling motor assembly disposed in a deployed position.

Figure 3 is a partial side elevation of the embodiment of Figure 1 along lines 3-3 thereof.

Figure 4 is a partial cross-section of the embodiment of Figure 2 along lines 4-4 thereof.

Figure 5 is a partial exploded perspective view of one preferred embodiment of a deployment assembly of the present invention.

Figure 6 is a partial plan view of the embodiment of Figure 1 illustrating the outboard trolling motor assembly disposed in the stowed position and at various points between and including the deployed position.

Figure 7 is a schematic view of one preferred embodiment of a control assembly of the present invention.

Like reference numerals refer to like parts throughout the several views of the drawings.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

1 The present invention is directed to an outboard trolling
2 motor deployment and control system for a boat, generally as show
3 at 10 throughout the figures. More in particular, the system 10 of
4 the present invention is structured and disposed for use on a boat
5 which is afloat in a body of water. The system 10 comprises an
6 outboard trolling motor assembly 12 including at least one outboard
7 trolling motor 14. In one preferred embodiment, the outboard
8 trolling motor assembly 12 comprises at least one pair of outboard
9 trolling motors 14.

10 The outboard trolling motor assembly 12 of the present
11 invention has at least one thrust axis 17 disposed substantially
12 parallel to a longitudinal centerline of the boat. The thrust axis
13 17 essentially defines a direction of an amount of thrust generated
14 by the outboard trolling motor assembly 12 which propels the boat.
15 Thus, by maintaining the thrust axis 17 substantially parallel with
16 the longitudinal centerline of the boat, the operating efficiency
17 of the outboard trolling motors 14 may be maximized. In
18 particular, the operating efficiency is maximized as a result of
19 the full force of the thrust being directed exactly opposite a
20 direction of travel of the boat. Any deviation of the direction of
21 the thrust axis 17 from being substantially parallel with the
22 longitudinal centerline of the boat results in some amount less
23 than the full force of the thrust being exactly opposite the
24 direction of travel of the boat, and as such, only some amount less
25 than the full force of the thrust is available to propel the boat.

1 More in particular, the outboard trolling motors 14 of the
2 present invention are of the type structured to propel a boat at
3 low speeds [i.e. trolling speeds] while creating only a minimal
4 disturbance to the surrounding water, such as, via a wake.
5 Typically, trolling motors 14 comprise small electrically powered
6 motors to further minimize the amount of disturbance created via
7 motor noise, however, it is understood to be within the scope of
8 the present invention for alternate power sources to be utilized to
9 energize the outboard trolling motors 14 of the present invention.
10 The outboard trolling motors 14 include a propellor 16 which is
11 interconnected to the motor 14 via a drive shaft 15. Each of the
12 outboard trolling motors 14 of the present invention are structured
13 to generate an amount of thrust along a corresponding thrust axis
14 17, each of the thrust axes 17 being maintained substantially
15 parallel to the longitudinal centerline of the boat, thereby
16 permitting the maximum operating efficiency to be obtained from
17 each of the outboard trolling motors 14, as described above.

18 The outboard motor deployment and control system 10 of the
19 present invention also comprises a deployment assembly, generally
20 as shown at 20. The deployment assembly 20 is disposed in a
21 cooperative association with the outboard trolling motor assembly
22 12. Specifically, the deployment assembly 20 is structured to
23 facilitate positioning the outboard trolling motor assembly 12
24 between a stowed position, as illustrated in Figure 1, and at least
25 one predetermined deployed position, as in Figure 2. The at least

one predetermined deployed position is at least partially defined by the outboard trolling motor assembly 12 being disposed laterally outward from at least one side of the boat. In one preferred embodiment, the at least one predetermined deployed position is at least partially defined by each of the pair of outboard trolling motors 14 being disposed laterally outward from an opposite side of the boat, as illustrated in Figure 2. The predetermined deployed position may be further defined by each of the outboard trolling motors 14 being disposed laterally outward a substantially equal distance from an opposite side of the stern of the boat, also as illustrated in Figure 2. Further, and again as illustrated in Figure 2, the predetermined deployed position may be at least partially defined by each of the outboard trolling motors 14 being disposed at a substantially equal depth below a normal surface of the body of water.

In addition, the at least one predetermined deployed position may be further defined by each of the pair of outboard trolling motors 14 being disposed laterally outward from an opposite side of the stern of the boat such that the corresponding thrust axes 17 are submerged into a substantially undisturbed portion of the body of water, or "clean water," surrounding the boat and, in a preferred embodiment, each of the thrust axes 17 further disposed substantially parallel to the normal surface of the body of water. Thus, the predetermined deployed position provides proper lateral, axial, and vertical placement of each of the outboard trolling

1 motors 14 to assure uniform propulsion from each under normal
2 operating conditions, so as to further maximize operating
3 efficiency.

4 In at least one embodiment, the deployment assembly 20 of the
5 present invention is disposed in an interconnecting orientation
6 with a portion of the hull of the boat. In one preferred
7 embodiment, the deployment assembly 20 is disposed in the
8 interconnecting orientation with a transom of the boat, as
9 illustrated throughout the figures. The deployment assembly
10 preferably includes at least one pair of positionable mounting
11 members 22, each being structured to operatively engage a different
12 one of the pair of outboard trolling motors 14. At least one
13 embodiment of the deployment assembly 20 of the present invention
14 further comprises a pair of mounting sleeve mechanisms 24, each
15 structured to interconnect a different one of the positionable
16 mounting members 22 to the boat through a portion of the hull.
17 Once again, in a preferred embodiment the portion of the hull of
18 the boat is the transom, as illustrated in the figures. The
19 mounting sleeve mechanisms 24 of the deployment assembly 20 of the
20 present invention are further structured to movably interconnect,
21 and in one preferred embodiment, to rotatably, interconnect the
22 positionable mounting members 22 through the portion of the hull.

23 In addition, in at least one embodiment of the present
24 invention, each mounting sleeve mechanism 24 includes a sealing
25 mechanism 26 structured and disposed to provide a liquid

1 restrictive interconnection between a corresponding one of the
2 positionable mounting members 22 and the portion of the hull of the
3 boat. More in particular, the liquid restrictive interconnection
4 is at least partially defined by minimizing the amount of liquid
5 which can be transferred from the exterior of the boat to the
6 interior of the boat through the mounting sleeve mechanism 24. The
7 sealing mechanism 26, in one preferred embodiment, may comprise a
8 seal 27, for example, a gasket structured to engage a portion of a
9 corresponding positionable mounting member 22, as illustrated in
10 Figure 5. As further illustrated in Figure 5, the sealing
11 mechanism 26 is structured to permit only a portion of the
12 positionable mounting member 22 comprising the power and control
13 interconnections with the corresponding outboard trolling motor 14
14 to extend through the seal 27 and into the interior of the boat.
15 It will be appreciated that the present invention may encompass
16 other types of sealing mechanisms 26 and/or seals 27 provided they
17 are structured to minimize the amount of liquid which may be
18 transferred from the exterior to the interior of the boat through
19 the mounting sleeve mechanism 24.

20 As further illustrated in Figure 5, one preferred embodiment
21 of the deployment assembly 20 of the present invention, and in
22 particular, the positionable mounting members 22 of the present
23 invention, each comprise a positionable stop member 23. Each
24 positionable stop member 23 is structured to facilitate disposing
25 the corresponding outboard trolling motor 14 between the stowed

1 position and the at least one predetermined deployed position.
2 More specifically, in this preferred embodiment, the corresponding
3 mounting sleeve mechanism 24 comprises at least one at least one
4 deployment stop member 28. Further, as illustrated in Figure 5,
5 the at least one predetermined deployed position is partially
6 defined by a portion of the positionable stop member 23 abutting a
7 portion of the at least one deployment stop member 28, such that
8 further rotation of the positionable mounting member 22 in the
9 direction of the abutting members is restricted.

10 Thus, the outboard trolling motor 14 is rotatably disposable
11 into the at least one predetermined deployed position by simply
12 rotating the positionable mounting member 22, and the corresponding
13 outboard trolling motor 14, outward and downward from the stowed
14 position along a substantially arcuate path of travel, as
15 illustrated in Figure 2, until the positionable stop member 23
16 abuts the deployment stop member 28. As further illustrated in
17 Figure 2, the arcuate path of travel, in at least one preferred
18 embodiment, is disposed in a generally vertical plane. At this
19 point, the outboard trolling motor 14 is disposed a predetermined
20 distance laterally outward from the side of the boat, preferably
21 off the stern of the boat, and is submerged into a substantially
22 undisturbed portion of the body of water (i.e. "clean water") at a
23 predetermined depth below and substantially parallel to a normal
24 surface of the body of water. In this predetermined deployed
25 position, the thrust axis 17 of the outboard trolling motor 14 is

1 disposed and maintained substantially parallel to the longitudinal
2 centerline of the boat, thus allowing the maximum efficiency to be
3 obtained from the outboard trolling motor 14.

4 Of course, it is understood that the mounting sleeve
5 mechanisms 24 may comprise a plurality of deployment stop members
6 28 such that each of the outboard trolling motors 14 is disposable
7 into any one of a plurality of predetermined deployed positions by
8 simply rotating the positionable mounting member 22 outward and
9 downward from the stowed position, along the substantially arcuate
10 path of travel, until the positionable stop member 23 abuts the
11 desired one of the plurality of deployment stop members 28. In
12 particular, each of the plurality of predetermined deployed
13 positions is at least partially defined by the outboard trolling
14 motors 14 being disposed at one of a plurality of predetermined
15 distances laterally outward from the side of the boat, once again,
16 preferably off the stern of the boat, and submerged into the
17 substantially undisturbed portion of the body of water at one of a
18 plurality of predetermined depths below and substantially parallel
19 to a normal surface of the body of water, while their corresponding
20 thrust axes 17 are disposed and maintained substantially parallel
21 to the longitudinal centerline of the boat.

22 Also, as illustrated in the preferred embodiment of Figure 5,
23 the mounting sleeve mechanism comprises a stowage stop member 29.
24 Similar to the deployment stop members 28 described above, the
25 stowage stop member 29 is structured such that the stowed position

1 is at least partially defined by a portion of the positionable stop
2 member 23 abutting a portion of the stowage stop member 29, such
3 that further rotation of the positionable mounting member 22 in the
4 direction of the abutting members is restricted. In one preferred
5 embodiment, the stowed position is at least partially defined by
6 the outboard trolling motors 14 being disposed out of the body of
7 water and positioned above a portion of the hull of the boat,
8 wherein the portion of the hull, in one preferred embodiment, is
9 the transom. More in particular, each of the outboard trolling
10 motors 14 is disposable into its stowed position by simply rotating
11 the positionable mounting member 22, and the corresponding outboard
12 trolling motor 14, inward and upward from its deployed position,
13 along the substantially arcuate path of travel, until the
14 positionable stop member 23 abuts the corresponding stowage stop
15 member 29.

16 It is apparent from the foregoing that positioning of the
17 outboard motor assembly 12 between the stowed position and one or
18 more of the predetermined deployed positions, and vice versa, may
19 be accomplished by manual movement of the positionable mounting
20 member 23 and the corresponding outboard trolling motor 14. Of
21 course, it is understood to be within the scope and intent of the
22 present invention to employ one or more mechanical and/or motorized
23 devices as are utilized to rotate a member, to assist and/or to
24 effect the positioning of the outboard motor assembly 12 between
25 the stowed position and the deployed position, and vice versa.

1 The outboard trolling motor deployment and control system 10
2 of the present invention further comprises a control assembly,
3 generally as shown at 30. The control assembly 30 is disposed in
4 a communicative relationship with the outboard motor assembly 12,
5 and is structured to at least actuate the outboard trolling motor
6 assembly 12. In one preferred embodiment, the control assembly 30
7 is further disposed in a communicative relationship with the
8 outboard trolling motors 14. The system 10 of the present
9 invention further comprises at least one power supply 19 disposed,
10 at least temporarily, in an energizing relation with the outboard
11 motor assembly 12. At least one embodiment of the present
12 invention comprises a plurality of power supplies 19, each at least
13 temporarily disposed in an energizing relation with a different one
14 of a plurality of outboard motors 14. In one preferred embodiment,
15 the at least one power supply 19 comprises a rechargeable marine
16 battery, however, it is understood to be within the scope of the
17 present invention for alternate forms of the power supply 19 to be
18 utilized.

19 The control assembly 30 is further disposed in a communicative
20 relationship with the at least one power supply 19 and is
21 structured to actuate the outboard trolling motor assembly 12 by
22 temporarily disposing the at least one power supply 19 into the
23 energizing relation with the outboard trolling motor assembly 12.
24 More specifically, the control assembly 30 comprises an actuation
25 switch 32 structured to complete a circuit between the power supply

1 19 and the outboard trolling motor assembly 12, thereby actuating
2 at least one of the outboard trolling motors 14. The actuation
3 switch 32 may comprise any of a number of switching mechanisms
4 commonly utilized in such control circuits.

5 In one other embodiment, the control assembly 30 comprises a
6 plurality of actuation switches 32, each of the actuation switches
7 32 structured to actuate a corresponding one of the plurality of
8 outboard trolling motors 14. In this embodiment, the system 10 may
9 comprise a single power supply 19 disposed in the communicative
10 relationship with the control assembly 30 and structured to at
11 least temporarily energize each of the plurality of outboard
12 trolling motors 14. Alternatively, this embodiment may comprise a
13 plurality of power supplies 19, each disposed in a communicative
14 relationship with the control assembly 30 and, further, each being
15 structured to at least temporarily energize a different one of the
16 plurality of outboard trolling motors 14.

17 In one preferred embodiment, the control assembly 30 further
18 comprises a master actuation switch 33 structured to actuate the
19 plurality of outboard trolling motors 14 substantially
20 simultaneously. As in the embodiment comprising a plurality of
21 actuation switches 32, this preferred embodiment may employ a
22 single power supply 19 disposed in the communicative relationship
23 with the control assembly 30 and structured to at least temporarily
24 energize each of the plurality of outboard trolling motors 14 or,
25 alternatively, it may comprise a plurality of power supplies 19

1 each disposed in the communicative relationship with the control
2 assembly 30 and structured to energize a different one of each of
3 the plurality of outboard trolling motors 14.

4 The control assembly 30 of the present invention may also
5 include at least one direction switch 34. In particular, the
6 direction switch 34 is structured to allow operation of the
7 outboard trolling motor assembly 12 in either a forward direction
8 or a reverse direction. In at least one embodiment, the control
9 assembly comprises a plurality of direction switches 34, each
10 structured to allow operation of a corresponding one of the at
11 least one pair of outboard trolling motor 14 in either the forward
12 direction or the reverse direction. This embodiment allows the
13 operator to operate both of the pair of outboard trolling motors 14
14 in the same direction, so as propel the boat in either the forward
15 direction or the reverse direction. Additionally, this embodiment
16 permits the operator to operate the pair of outboard trolling
17 motors 14 in opposite directions so as to turn and/or propel the
18 boat in either a port direction or a starboard direction. As such,
19 the control assembly 30 may be utilized to allow the operator to
20 effectively steer the boat, without restricting the operator to the
21 area immediately proximate the outboard trolling motors 14. In one
22 preferred embodiment, the control assembly 10 of the present
23 invention includes a master direction switch 35, the master
24 direction switch 35 being structured to allow the operation of a
25 plurality of outboard trolling motors 14 in either a forward

1 direction or a reverse direction, substantially simultaneously.

2 In one further embodiment of the system 10 of the present
3 invention, the control assembly 10 also comprises at least one
4 speed switch 36, the speed switch 36 structured to operate the
5 outboard trolling motor assembly 12 at any one of a plurality of
6 motor speeds. At least one other embodiment includes a plurality
7 of speed switches 36, each structured to operate a corresponding
8 one of at least one pair of outboard trolling motors 14 at any one
9 of the plurality of motor speeds. Once again, in one preferred
10 embodiment, the control assembly 10 of the present invention
11 comprises a master speed switch 37, the master speed switch 37
12 structured to operate at least the pair of outboard trolling motors
13 14 at any one of a plurality of motor speeds, substantially
14 simultaneously.

15 As may be appreciated from the foregoing, the control assembly
16 10 of the present invention permits an operator to control the
17 speed and direction of the boat from a location remote of the
18 outboard trolling motor assembly 12, such that the operator is free
19 to move about the boat to fish. Specifically, in one embodiment,
20 the communicative relationship of the control assembly 30 with the
21 outboard trolling motor assembly 12 may be established by way of
22 physical connection, such as by a length of electrical or control
23 wire between the control assembly 30 and the outboard trolling
24 motor assembly 12, the wire being of sufficient length to permit
25 the operator to move about essentially the entire deck of the boat.

1 In one preferred embodiment, the communicative relationship may be
2 established via a remote transmission from the control assembly 30
3 to a receiving unit proximate the outboard motor assembly 12, once
4 again permitting the operator to move about essentially the entire
5 deck of the boat, however, without the potential for entanglement
6 with an electrical or control wire.

7 One further embodiment of the outboard trolling motor
8 deployment and control system 10 of the present invention may also
9 include a safety switch 39. In particular, the system 10 may
10 comprise a safety switch 39 structured to prevent actuation of the
11 outboard trolling motors 14 when they are not disposed in at least
12 one of the predetermined deployed positions, so as to minimize the
13 risk of injury to persons by the motors while stowed or while being
14 stowed. The safety switch 39 of the present invention may include,
15 but is not limited to, a simple gravity type switch, a contact
16 switch, a differential pressure switch, etc.

17 Since many modifications, variations and changes in detail can
18 be made to the described preferred embodiment of the invention, it
19 is intended that all matters in the foregoing description and shown
20 in the accompanying drawings be interpreted as illustrative and not
21 in a limiting sense. Thus, the scope of the invention should be
22 determined by the appended claims and their legal equivalents.

23 Now that the invention has been described,